

In the Specification:

Please amend the specification as follows:

Please replace the paragraph beginning on page 15, line 4, with the following rewritten paragraph:

$$PM2(t)=BM4+PM4PM0(t-1) \quad \dots (9)$$

Please replace the paragraph beginning on page 15, line 13, with the following rewritten paragraph:

It is noted that  $BM0+PM0(t-1)$  of  $PM0(t)$  corresponds to a transition from the state  $S0$  to the state  $S0$ , and  $BM1+PM1(t-1)$  of  $PM0(t)$  corresponds to a transition from the state  $S0S1$  to the state  $S2S0$ . In addition,  $BM6+PM2(t-1)$  of  $PM3(t)$  corresponds to a transition from the state  $S3S2$  to the state  $S4S3$ , and  $BM7+PM3(t-1)$  of  $PM3(t)$  corresponds to a transition from the state  $S3$  to the state  $S3$ .